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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of

GILBERT P. HYATT

Serial No. 08/464,034

Docket No. 751

Filed: June 5, 1995

For: IMPROVED IMAGE PROCESSING  
ARCHITECTURE

GROUP 260

Group Art Unit: Not yet assigned

Examiner: Not yet assigned

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GROUP 260PRELIMINARY AMENDMENT

Hon. Assistant Commissioner  
For Patents  
Washington, D.C. 20231

Sir:

Cancel claims 1-20 and substitute in place thereof claims 21-97 as follows.

--21. An image processing system comprising:  
a processor generating image information;  
a plurality of memories including a first memory, a second memory, and a third memory;  
an input circuit coupled to the first memory and writing a sequence of input words into the first memory in response to the image information;  
a first output circuit coupled to the second memory and outputting a first sequence of output words from the second memory simultaneously with the writing of the sequence of input words into the first memory by the input circuit; and  
a second output circuit coupled to the third memory and outputting a second sequence of output words from the third memory simultaneously with the writing of the sequence of input words into the first memory by the input circuit and simultaneously with the outputting of the first sequence of output words from the second memory by the first output circuit.